

PATENT ABSTRACTS OF JAPAN

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(21)Application number : 05-299927 (71)Applicant : NITTO DENKO CORP

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(54) FLAME-RETARDANT ADHESIVE

(57)Abstract:

PURPOSE: To improve flame retardancy and heat resistance by compounding a thermoplastic high-molecular weight polyester with a brominated phosphoric ester and an inorg. filler.

CONSTITUTION: 100 pts.wt. thermoplastic high-molecular weight polyester is compounded with 20-150 pts.wt. brominated phosphoric ester and 1-50 pts.wt. inorg. filler. The polyester is produced by the polycondensation of a dicarboxylic acid (e.g. terephthalic acid) with a diol (e.g. ethylene glycol) and has a mol.wt. of 10,000-30,000. An example of the phosphoric ester is tris(dibromophenyl) phosphate. An example of the filler is calcium carbonate, pref. having an average particle size of about 1μm or lower. Regardless of the shape of the adhesive, its flame retardance and heat resistance are improved by the exposure to a radiation such as an electron beam or γ-ray. The dose of the radiation is usually 50-300kGy, though varied by various factors.

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